Visual Aids 2 California Education and the Environment Initiative **Science Standards** 2.3.a. and 2.3.b. **Supports ELA Standard: Reading 2.2.7. CALIFORNIA** E Education and Environment Initiative

The Earth Rocks

California Education and the Environment Initiative

Approved by the California State Board of Education, 2010

The Education and the Environment Initiative Curriculum is a cooperative endeavor of the following entities:

California Environmental Protection Agency
California Natural Resources Agency
California State Board of Education
California Department of Education
Department of Resources Recycling and Recovery (CalRecycle)

Key Partners:

Special thanks to **Heal the Bay,** sponsor of the EEI law, for their partnership and participation in reviewing portions of the EEI curriculum.

Valuable assistance with maps, photos, videos and design was provided by the **National Geographic Society** under a contract with the State of California.

Office of Education and the Environment

1001 | Street • Sacramento, California 95814 • (916) 341-6769 http://www.CaliforniaEEI.org

© Copyright 2011 by the California Environmental Protection Agency
© 2013 Second Edition
All rights reserved.
This publication, or parts thereof, may not be used or reproduced without permission from the Office of Education and the Environment.

These materials may be reproduced by teachers for educational purposes.



Lesson 1 The Rocky Earth

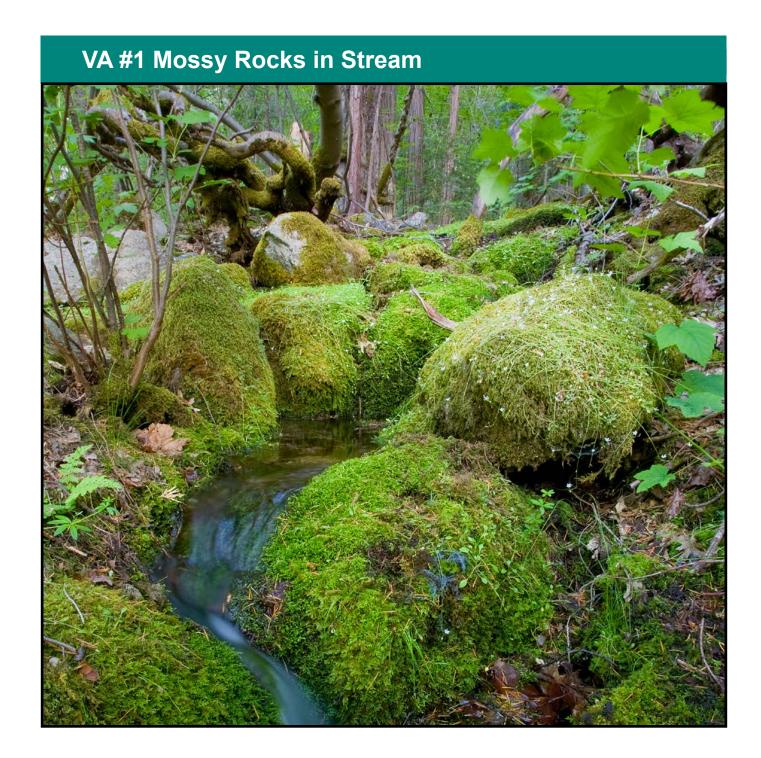
None required for this lesson.

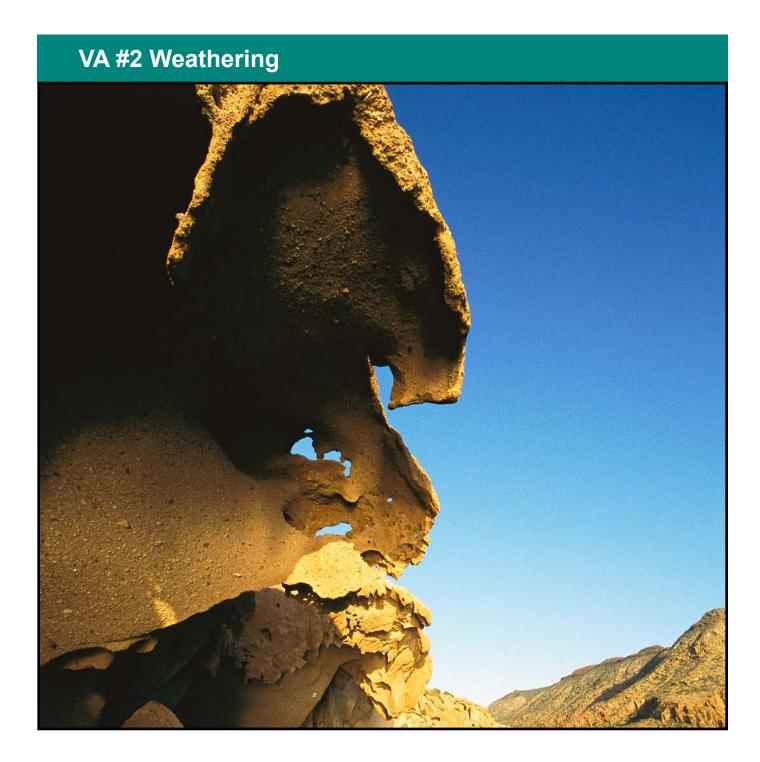
L	Lesson 2 The Earth Rocks
1	Mossy Rocks in Stream
L	Lesson 3 Change, Change, Change
2	Weathering 4
3	Distant View of Mt. Ritter
4	Close-Up View of Mt. Ritter 6
5	Magnified Sand 7
6	Quartz
7	Salmon Spawning
L	.esson 4 Putting Rocks to Work
8	California Gold and California Gold Mine

esson 5 Minerals at Work
Properties of Minerals
Matching Minerals: Diamond 13
Matching Minerals: Salt
Matching Minerals: Bauxite
Matching Minerals: Graphite
Matching Minerals: Talc
Matching Minerals: Garnet

Lesson 6 People Rock!

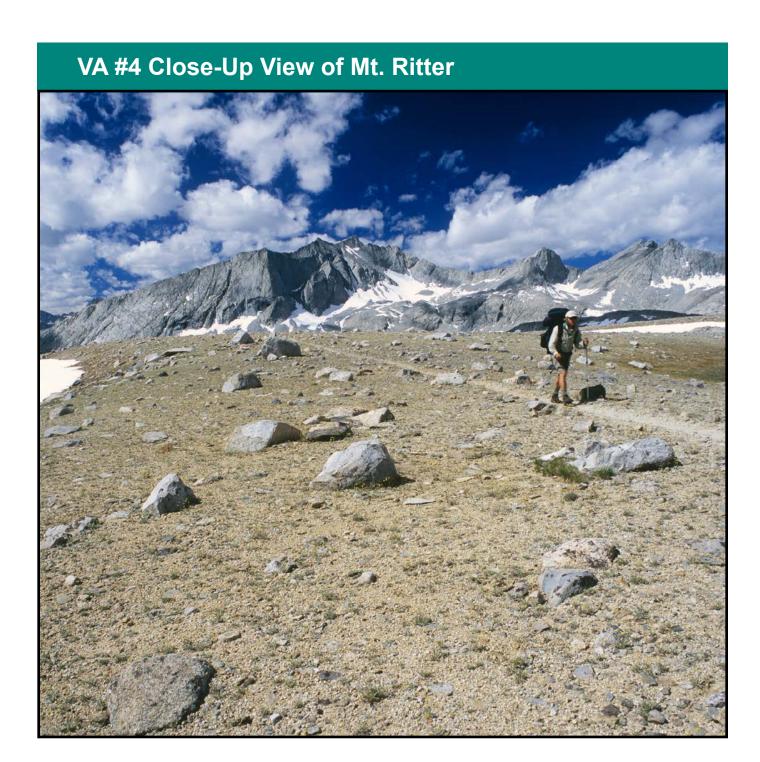
None required for this lesson.

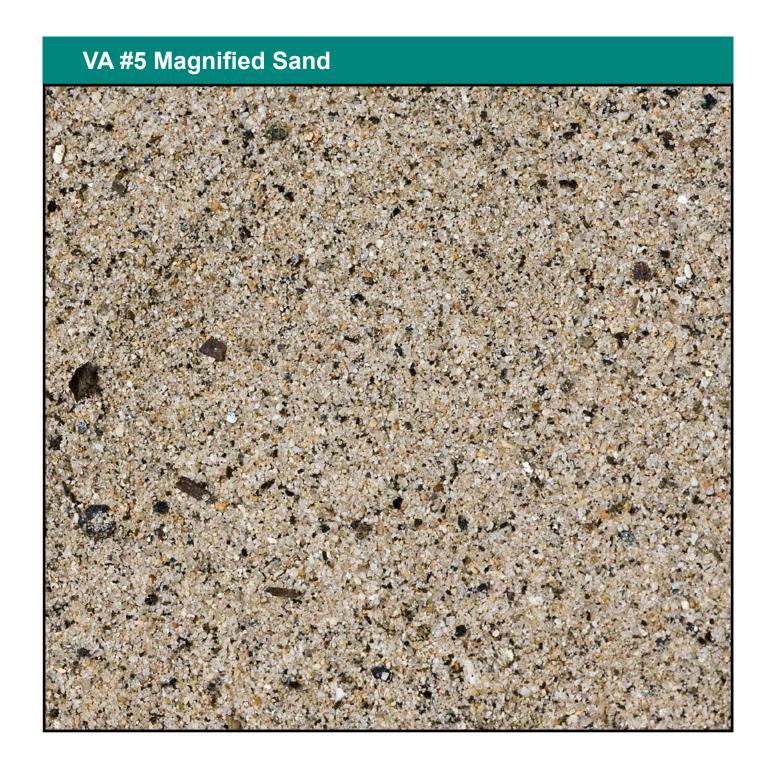




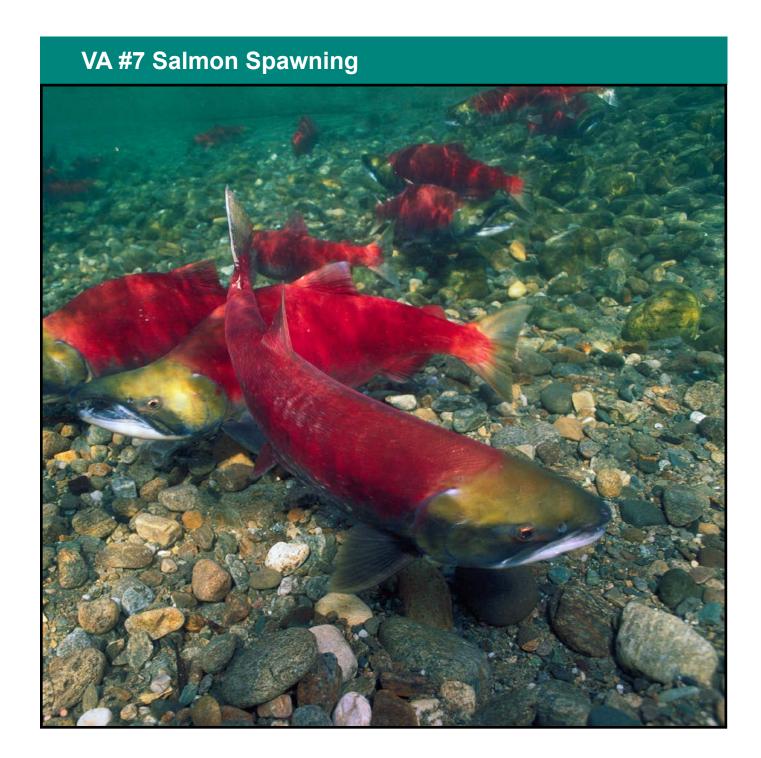
VA #3 Distant View of Mt. Ritter











VA #8 California Gold and California Gold Mine

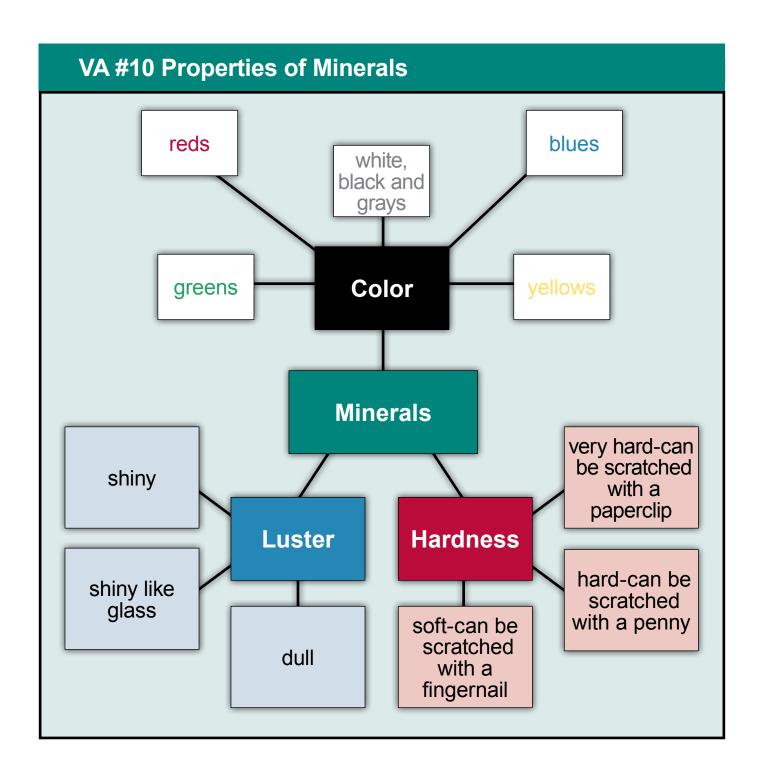




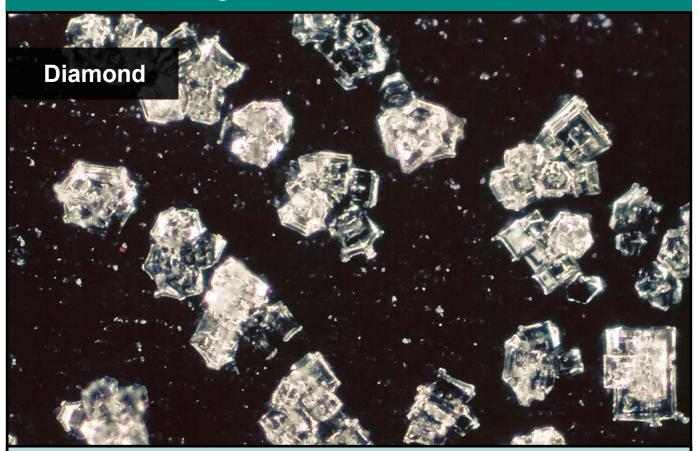




V	VA #9 Class Results Changed/Not Changed Bar Graph				
20					
19					
18					
17					
16					
15					
14					
13					
12					
11					
10					
9					
8					
7					
6 5					
4					
3					
2					
1					
•	People changed the shape or size of the rock.	People did not change the shape or size of the rock.			







Color: colorless, white, sometimes black

Luster: very shiny

Hardness: hardest mineral

Did you know? Many tools are made with diamond blades

because diamonds are so hard.

Color: colorless, white, many other colors

Luster: shiny like glass

Hardness: soft

Did you know? People use salt in cooking. Sometimes

they shake salt on their food after it is cooked.

VA #13 Matching Minerals: Bauxite

Bauxite



Color: white, red, gray, or yellow

Luster: dull

Hardness: soft

Did you know? Aluminium cans are made from bauxite.

They can be recycled and used over again.





Color: dark gray to black

Luster: shiny

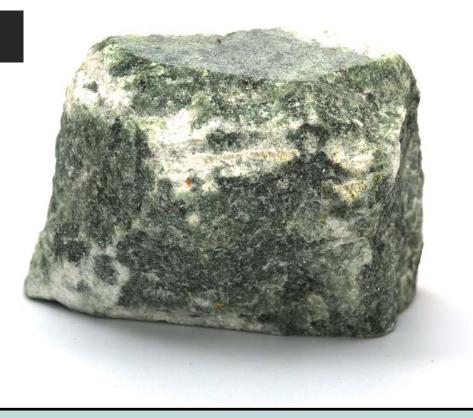
Hardness: soft

Did you know? The filling in your pencil is made of graphite.

Write on!

VA #15 Matching Minerals: Talc

Talc



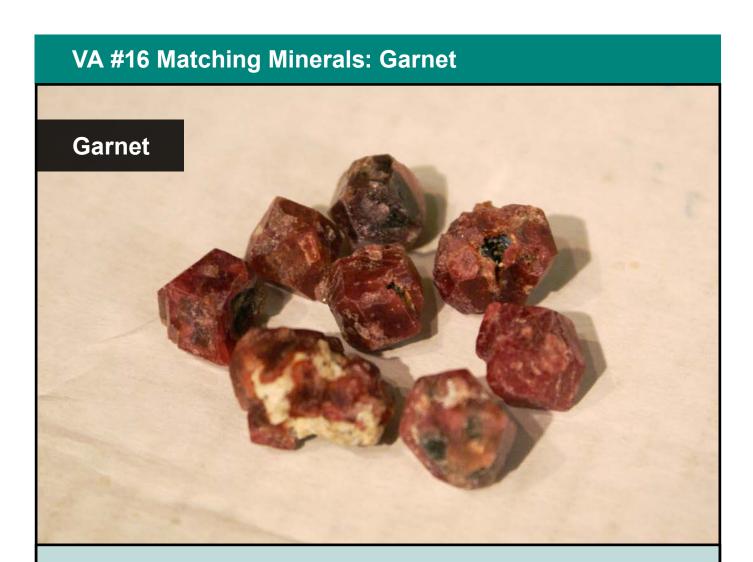
Color: white to light gray; sometimes pink, blue, green,

or black

Luster: dull

Hardness: softest mineral

Did you know? Baby powder is made from this soft mineral.



Color: deep red to brownish red

Luster: shiny like glass

Hardness: hard

Did you know? People wear jewelry made with garnets.





California Education and the Environment Initiative